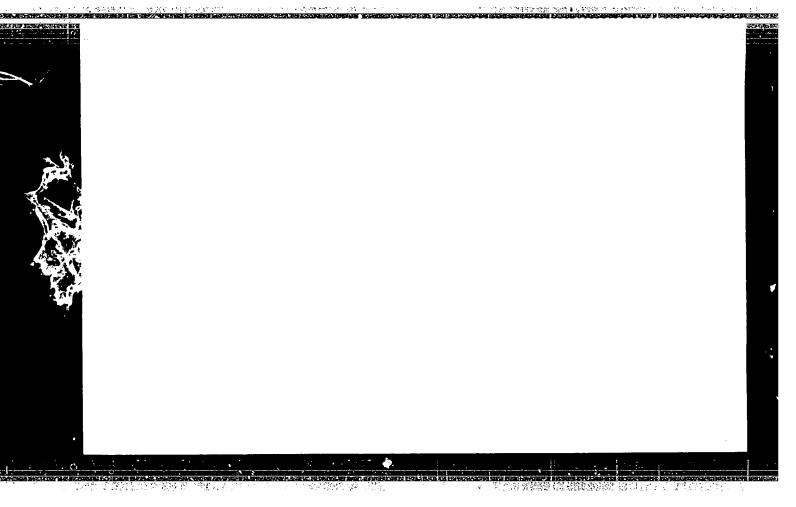
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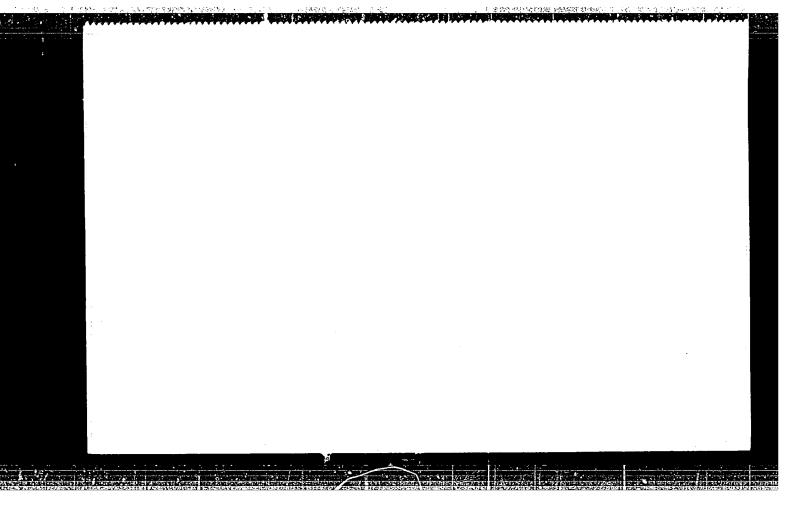
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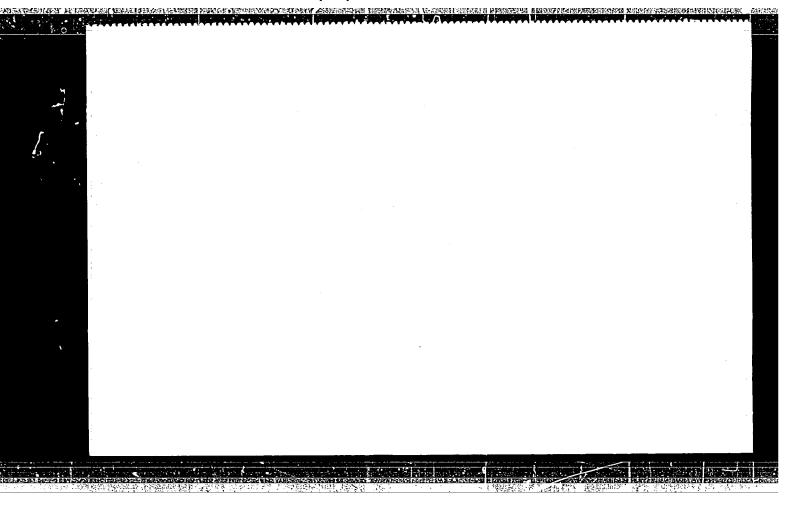
# REEL #16 AVERBUKH, S.S.

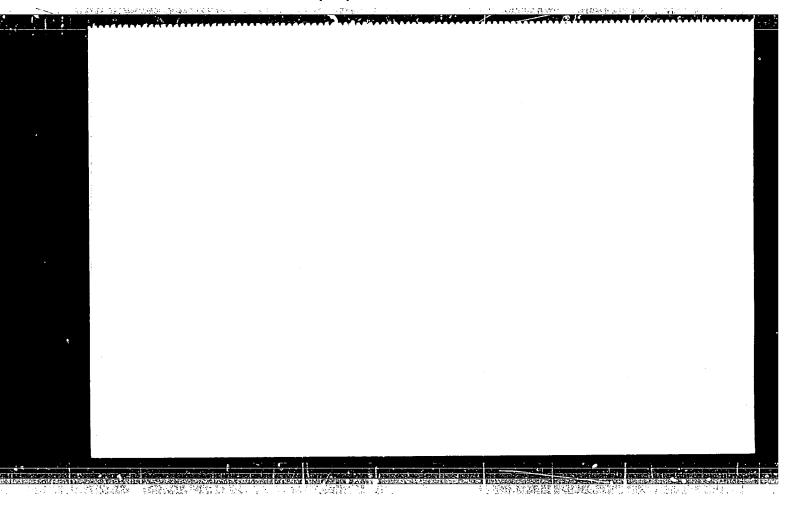
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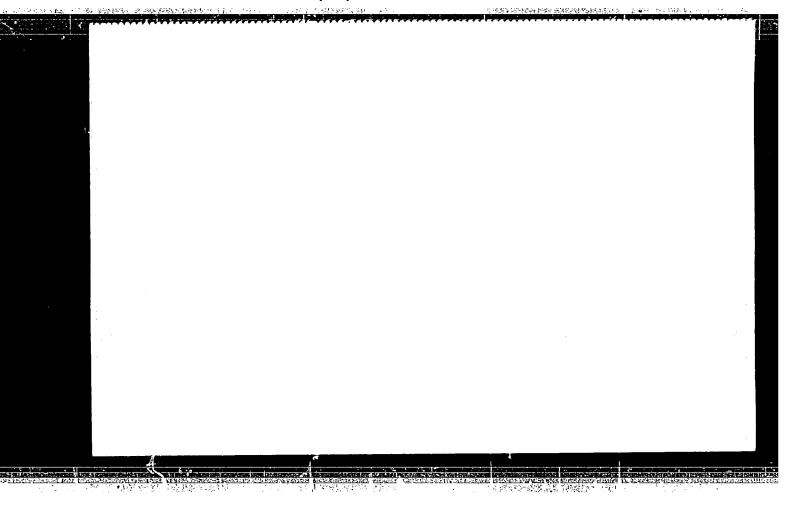


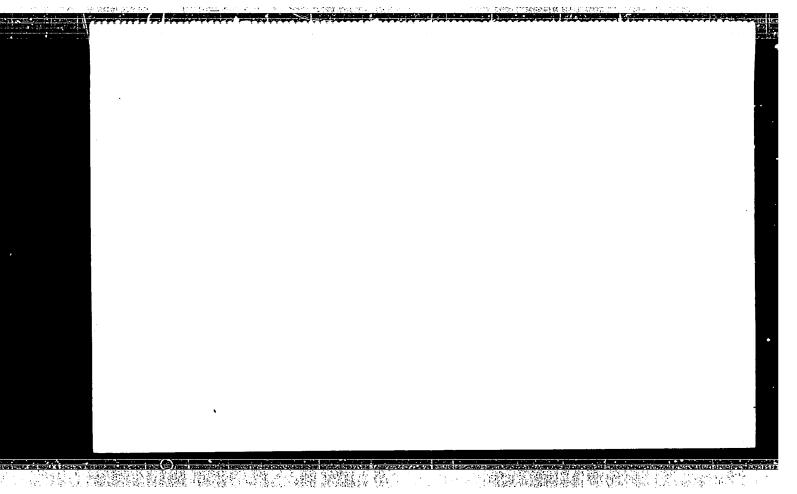
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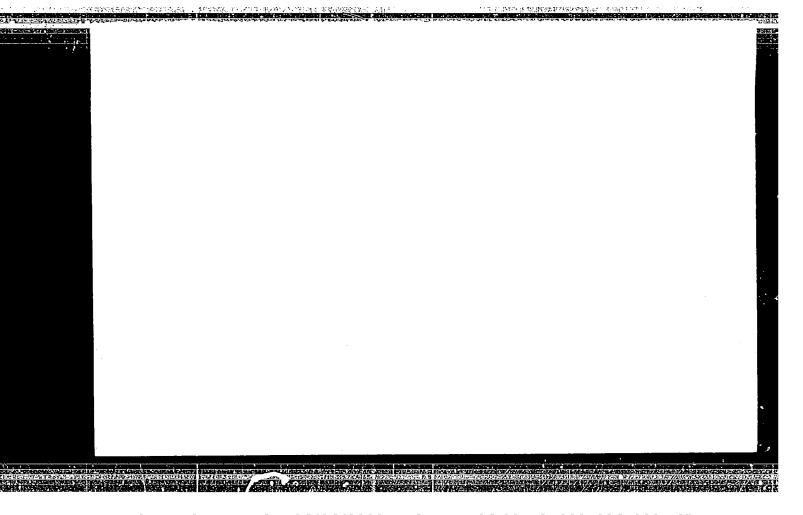


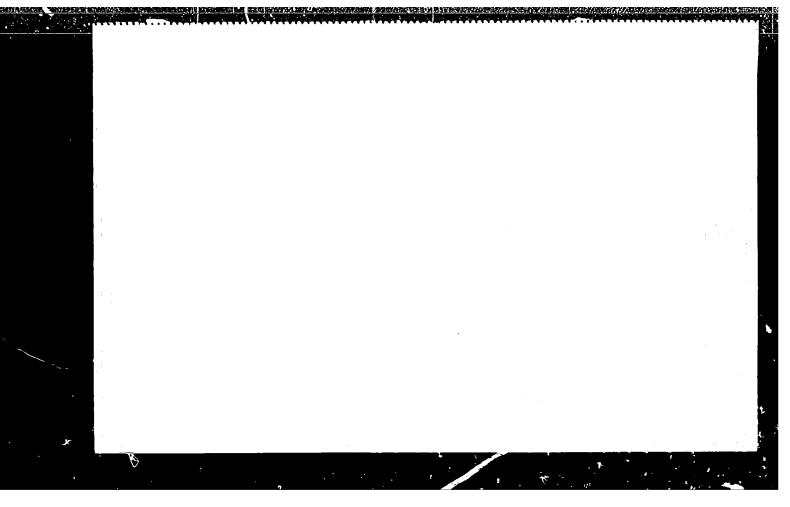




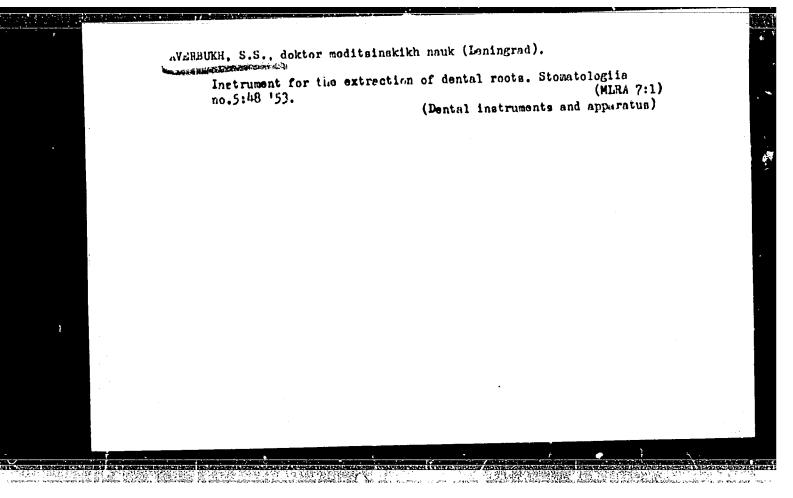


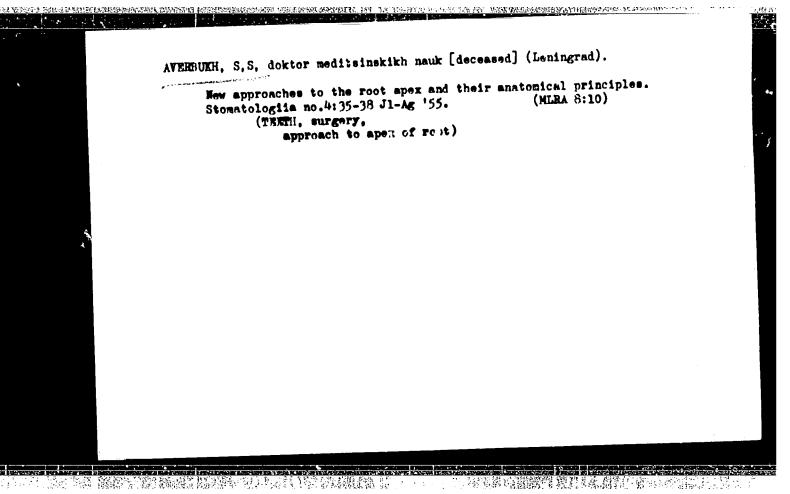






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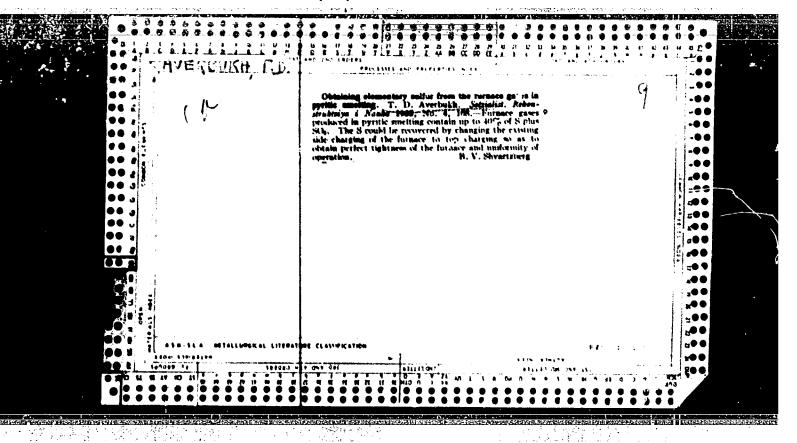
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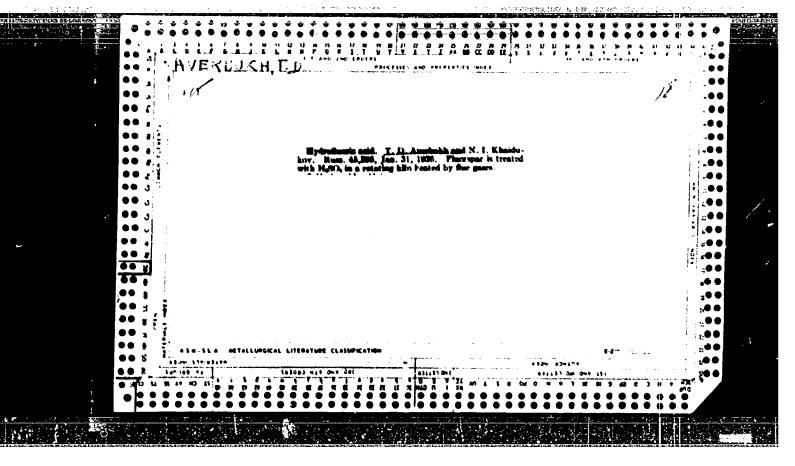
LITVINOV, M.A.; AVERBUKH, S.Ya.; BARKOVSKAYA, N.N.

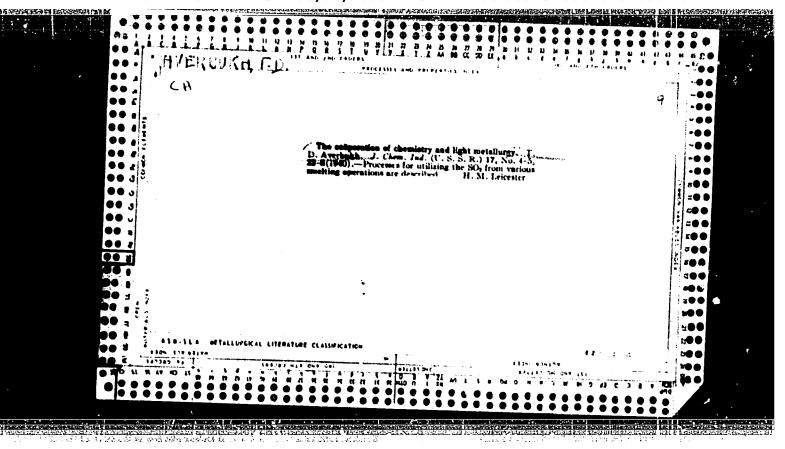
Experimental research on effective fungicidal mixtures of chemicals suitable for the impregnation of industrial cork packings. Trudy Bot.inet.Ser.2 no.10:175-178 '56. (MEMA 10:2) (Fungicides) (Facking (Mechanical engineering)

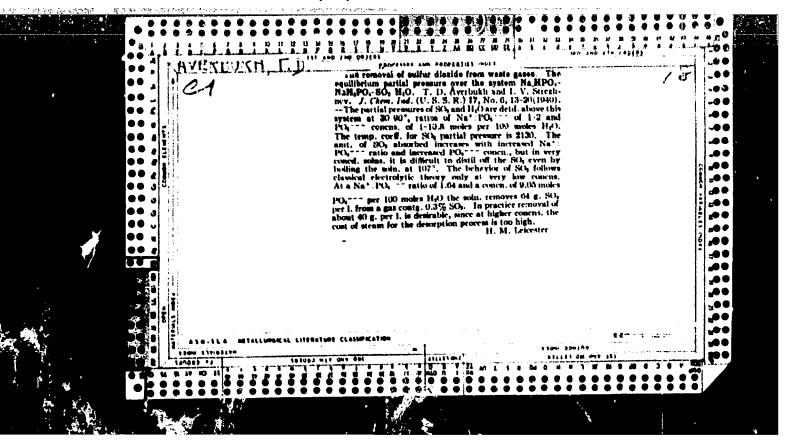
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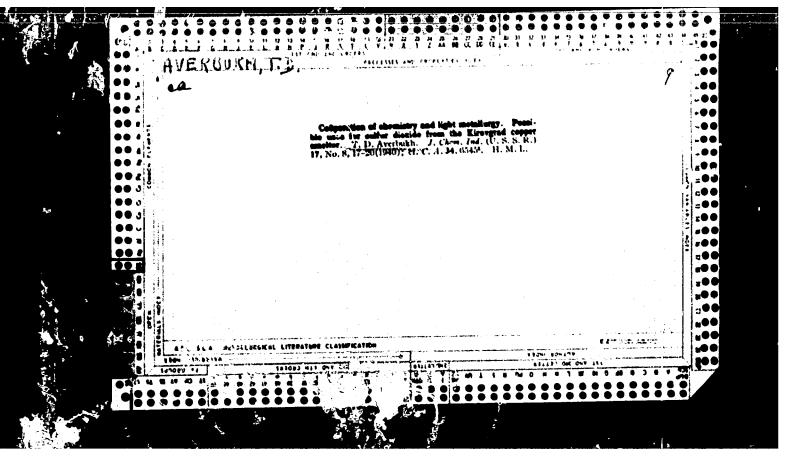
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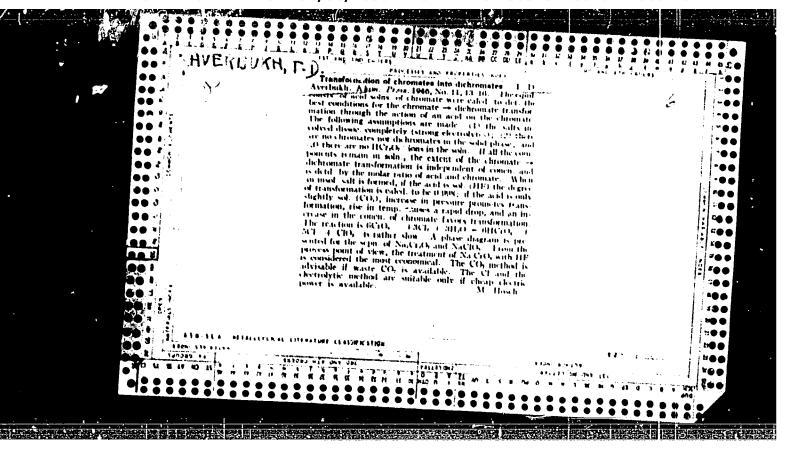


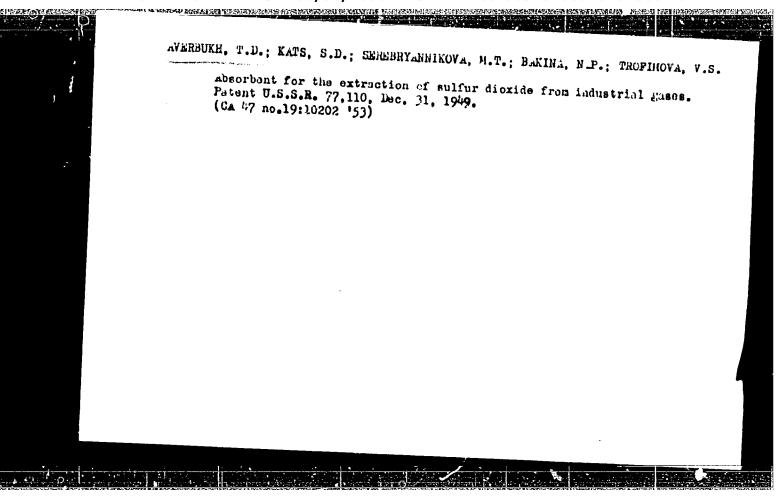




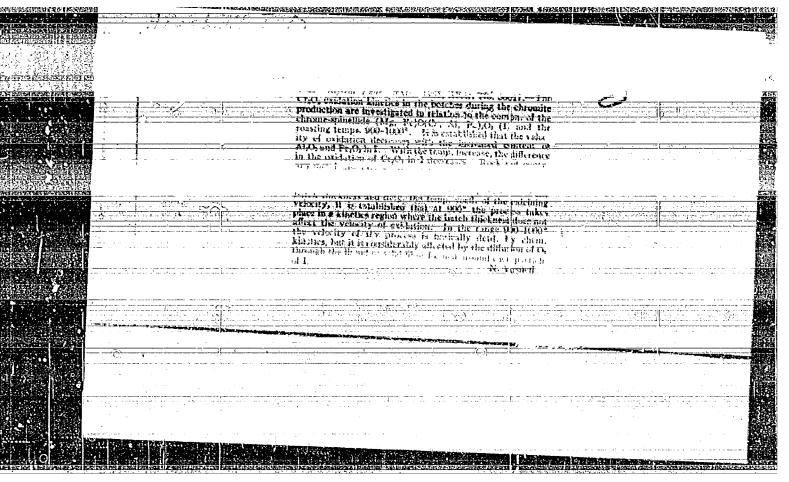




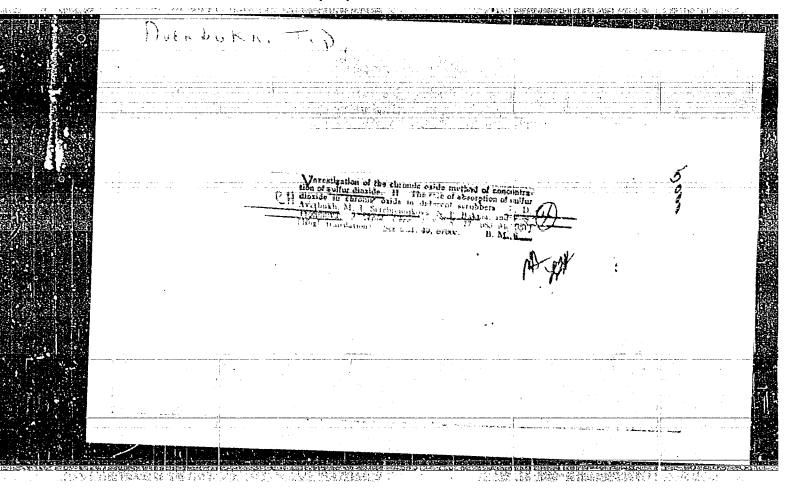




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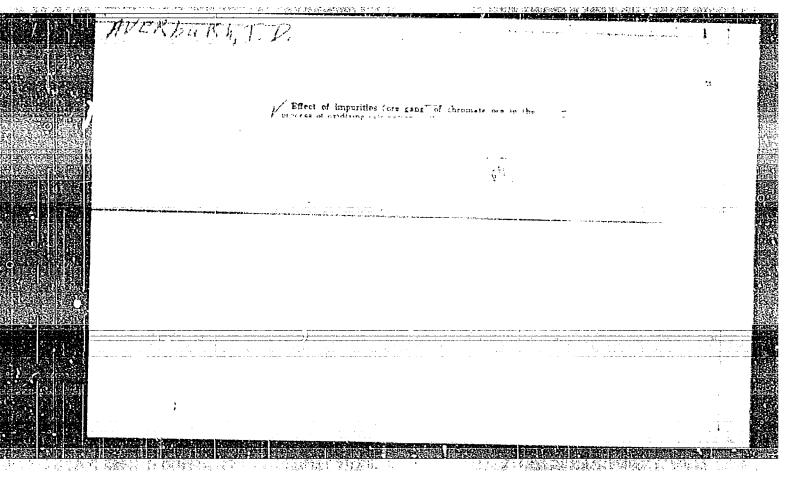
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AVERBUK!, T.D.; SERMBRENNIKOVA, M.A.; MASLOVA, N.D.

Mffect of admixtures (waste rock) in chromite ore on the oxidation roasting of charges in the bichromate. Zhur. prikl. khim. 29 no.4:498-505 Ap '56.

(Chromite) (Dolomite)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610001-0"



SOV/81-59-15-57616

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 281 (USSR)

AUTHORS:

Averbukh, T.D., Serebrennikova, M.A., Maslova, N.D.

TITLE:

The Investigation of the Process of Oxidation Calcination of Dolomite-

Free Charges in Bichromate Production

PERIODICAL:

Tr. Ural skogo n.-i. khim. in-ta, 1958, Nr 7, pp 23-31

ABSTRACT:

In several chromite samples the calcination of charges without filler (in boats and in revolving furnace models) has been investigated under stationary conditions at various temperatures and duration, at various degrees of grinding of the components and thickness of the charge layer. In the oxidation calcination of chromite charges without filler in which the quantity of the soda is calculated for forming Na<sub>2</sub>CrO<sub>4</sub>, Na<sub>2</sub>Fe<sub>2</sub>O<sub>4</sub>, Na<sub>2</sub>Al<sub>2</sub>O<sub>4</sub> and Na<sub>2</sub>SiO<sub>3</sub>, the oxidation rate of Cr<sub>2</sub>O<sub>3</sub> is many times lower than in the calcination of the usual charges. The determining effect in the kinetics of the oxidation process shows the oxygen diffusion in the layer or the granules. Due to the high Na<sub>2</sub>CO<sub>3</sub> content in the charge there is a danger of melting out the liquid phase (which can be avoided only by very long preliminary calcination at law terrations.)

Card 1/2

preliminary calcination at low temperature) and obtaining a dense cake with

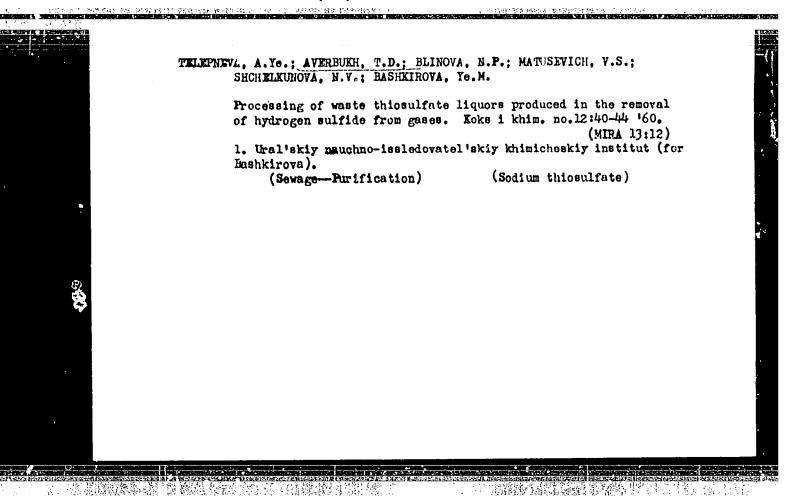
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The Investigation of the Process of Oxidation Calcination of Dolomite-Free Charges in Bichromate Production

a low oxidation degree which is difficultly permeable by oxygen. The calcination of dolomite-free charges, in which a part of the soda, consumed in the binding of  $Al_2O_3$ ,  $Fe_2O_3$  and  $SiO_2$ , is substituted by lime, shows encouraging results under stationary conditions. Due to the high fusibility of such charges their calcination in revolving kilns has no future.

V. Borisova.

Card 2/2



AVERNIKH. T.D.; APAKHOV, I.A.; MAYDUROVA, O.V.; EAKINA, N.P.; ELINOVA, N.P.; DURRA, A.A.; AVDEYEVA, I.V.

Removal of sulfur from waste gases of copper and sulfur plants by the method of afterburning. Khim.prom. no.41261-288 Ap '62. (MIRA 15:5)

1. Ural'skiy nauchno-issledovatol'skiy khimicheski; institut i Medningorskiy medno-sernyy kombinat. (Gases-Purification) (Sulfur oxides)

ACC NR: AP6023874

SOURCE CODE: UR/0109/66/011/007/1265/1294

AUTHOR: Averbukh, T. G.; Buzanova, L. K.; Vasil'yev, A. M.; Gliberman, A. Ya.

ORG: none

TITLE: Electric modulation of lateral photoemf

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1285-1294

TOPIC TAGS: photo omf, photoelectric effect, lateral photoelectric effect, photoelectric effect

ABSTRACT: So far the lateral-photoeffect cells have been investigated under the conditions of a constant signal; G. Wallmark (Proc. IRE, 1957, 45, 4, 474) mentioned a possibility of obtaining an alternating lateral photovoltage. The present article describes a theoretical and experimental investigation of a lateral-photoeffect cell modulated electrically by superposing an external alternating voltage on the p-n-junction voltage; weak illumination is assumed (AkT/q = 30-50 mv). It is found that: (1) The experiments have shown that the parameter  $\lambda = I_N(\rho/W)/(AkT/q)$  should not exceed 2.5 3 (for the photocells having R = 20 kohms and A = 1.7) in order to warrant the validity of the reported formulas; (2) The plot of light-spot coordinate vs. lateral modulated emf is linear, within 6%, when the spot moves away from the photocell center by a distance under 0.5 d; at 0.8 d, the nonlinearity is 12%; (3) The photocell sensitivity is proportional to the square of the photocell-

Cord 1/2

UDC: 621.383.44:546.28

1: 38296-66 ACC NR: AP6023874	Ö
layor resistance; a formula for the sensitivity in terms of no-load voltage suggested. Orig. art. has: 5 figures and 53 formulas.	e is [03]
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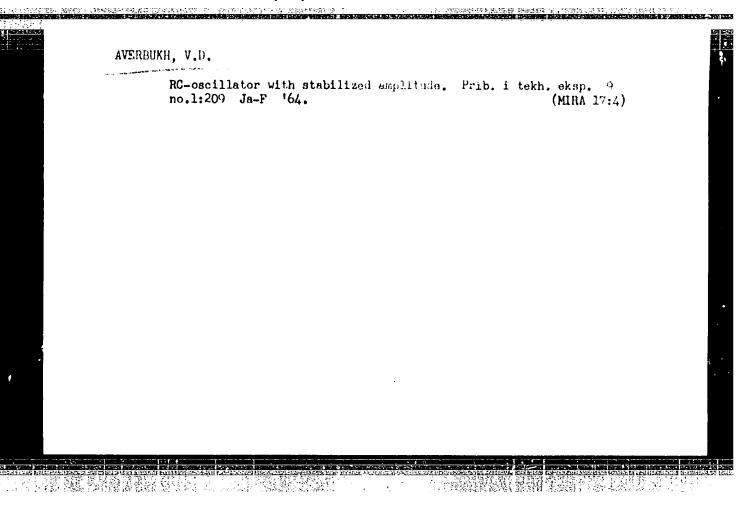
MARIYENKO, A.F.; AVERBUKH, V.D.

Automation of the heating of reactors in the production of alkyd resins. Lakokras. mat. i ikh prim. no. 6:61-63 '60.

(MIRA 13:12)

(Resins, Synthetic) (Automatic control)

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L 36851-66 EWT(1)/T IJF(c) AT

ACC NR. AP6019723

SOURCE CODE: UR/0108/66/021/006/0025/0031

AUTHOR: Averbukh, V. D. (Active member)

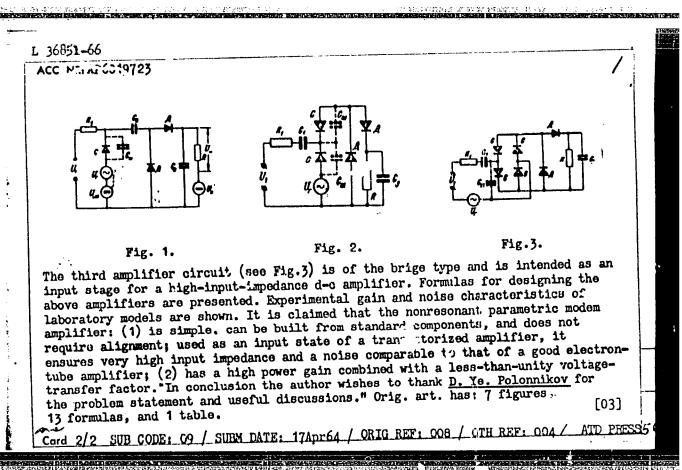
ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication im. A. S. Popov (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvynzi)

TITLE: Nonresonance parametric <u>low-frequency amplification</u> by means of alloy p-n junction capacitance

SOURCE: Radiotekhnika, v. 21, no. 6, 1966, 25-31

TOPIC TAGS: parametric amplifier, transistorized amplifier, lf amplifier, solid state amplifier, AMPLIFIER DESIGN, PN JUNCTION

ABSTRACT: Three improved circuits of 1-f parametric nonresonant modem-type amplifiers are suggested. Each circuit comprises: (a) a varactor, at which the pumping voltage or current is modulated by the input signal, (b) a linear with-respect-to-the-envelope circuit, and (c) a demodulator. The first amplifier circuit (see Fig.1) uses one varactor and a dicde detector of the asymmetrical doubler type; the input and pumping circuits are decoupled by R<sub>1</sub>; the load circuit is connected to the varactor via C<sub>2</sub>; the capacitor C<sub>3</sub> is used for filtering the output voltage. The second amplifier circuit (see Fig.2) uses two varactors connected in parallel at the input side and in series at the output side; this circuit has a higher voltage-transfer factor than the first circuit (theoretically, double).



		1. 35605-65 ACCESSION NR1 AP5007266
	. 4	equations with doubly symmetric roots. These roots appear as quadruples (see Fig.
		$\prod_{i=1}^{n} \left[ \frac{\partial^{i}}{\partial x^{i}} + 2(a_{i}^{2} - b_{i}^{2}) \frac{\partial^{i}}{\partial x^{2} \partial x^{3}} + (a_{i}^{2} + b_{i}^{2})^{2} \frac{\partial^{i}}{\partial x^{i}} \right] u(t, x) = 0$
		The desired solution of this equation is given by
	1	$2\pi G(I, x) = \frac{I^{n-2}}{(r-2)!} \sum_{k=1}^{r} (\hat{R} \circ G_k(a_1\beta_1 + a_2\beta_2 + a_3\beta_3 + a_4\beta_4)_{\lambda} =$
		$-\ln C_1(a_1\beta_1 + a_2\beta_2 + a_3\beta_4 - a_4\beta_3)_3)$ where the index i means that the values of the functions $c_{\infty}$ and $c_{\infty}$ are to be
•		distributed on a single straight exis parallel to the imaginary exis at a a.
		Then, the confficients $G_k$ become $C_h = \frac{1}{2(b_h - 1b_j)((b_h - 1b_j))((b_h + 1b_j))} = \frac{1}{2b_h \prod_{i=1}^{n} ((b_h^2 - b_j^2))}$
		Cord2/1: 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

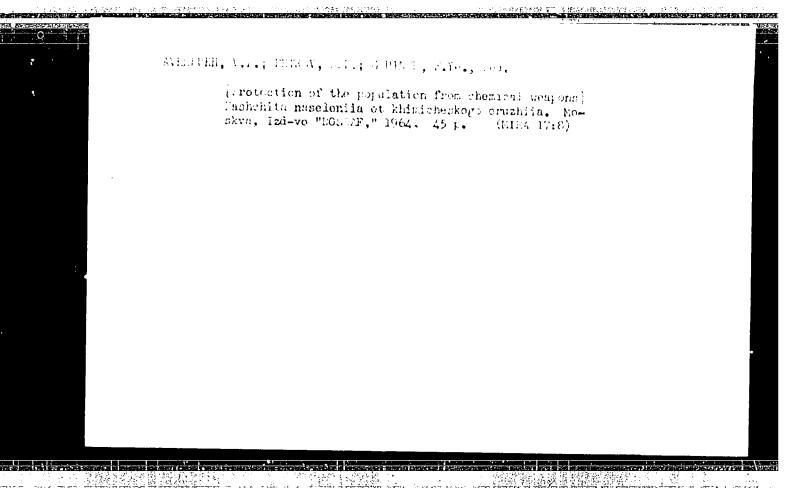
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ACCESSION MR: AP5007226

with the simplified solution  $G(l,x) = \frac{1}{n \cdot l^2} \operatorname{arctg} \frac{r^2}{r^2}.$ In a final note i' is shown that of the functions  $\bowtie_1$  (i = 1,2,3,4) only  $\bowtie_1$  depends on time explicitly, for the rest, time appears through the variable  $f_1$  is  $f_2$ . And  $f_3$  is equations.

ASSOCIATION: Refedula teeril funktsiy i funktsional noge analiza, Moskovskiy Analysis, Hoseow State University

SUBMITTED: Olauge) Engl: 01 SJB CODE: MA

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AVERBUKH, todimir Leonidovich; BERLIN, Isay Zakharovich; VOLKOV, P. .., ced.; SOVEL YEVA, Z.A., tekhn. red.

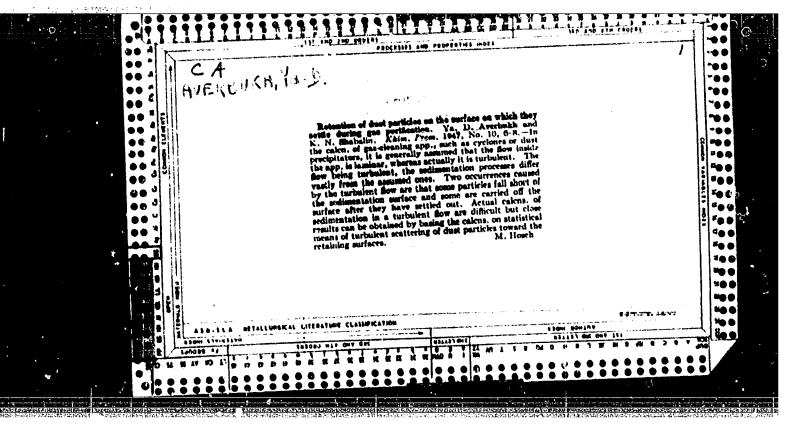
'How to protect cereal products against radioactive, chemical substances, and bacterial agents] Kak zashchitit' khlebeprodukty ot radioaktivnykh, khimicheskikh veshchestv i bakterial'nykh sredstv. Moskva, TsINII, 1963. 44 p.

(MIRA 16:12)

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(Cereal products)
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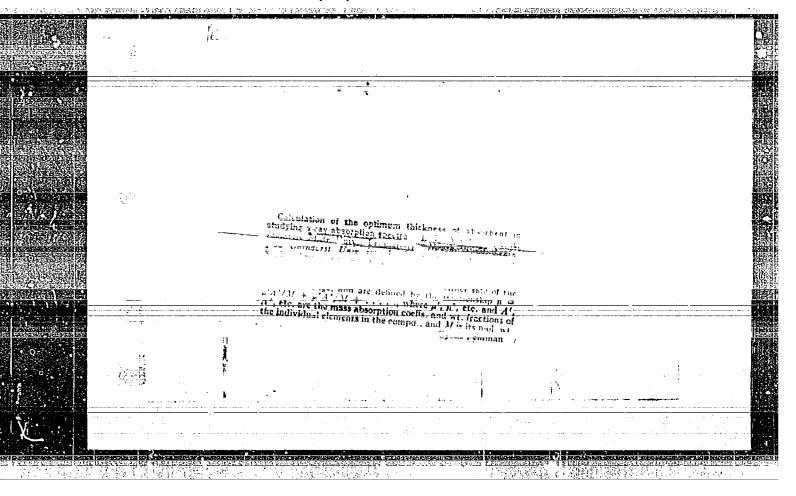


AVERBURH, Ya.D., kandidat tekhnicheskikh muk; SHABALIB, K.B., professor
"tekhnicheskikh nauk

Dust retention on the deposition surface in gas purification. Khim.
prom.no.10:290-292 0'47.

1. Ural'skiy industrial'nyy institut
(Scrubber (Chemical technology))

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610001-0



18.8300, 18.8400, 18.3100

65693 SUV/136-59-10-10/18

Averbukh, Ya.D., Potaskuyev, K.G. and Sharnin, A.A. AUTHORS:

Causes and Means of Reducing the Wear of the Boiler Tubes TITLE:

in the Steam Digester Batteries During Iroduction of

Alumina

PERIODICAL: Tsvetnyye metally, 1959, Nr 10, pp 58-64 (USSR)

The object of the investigation described in the present ABSTRACT:

paper, carried out jointly by the Department of Chemical Engineering at the Urals Folytechnical Institute, the Bogoslovsky Aluminium Plant (BAP) and the Urals Aluminium Plant (UAP), was to determine the causes and find means of preventing excessive wear of the tubes through which the alkaline aluminate solution is passing through the steam-heated digesters. The importance of the problem is illustrated by the fact that the life of the tubes in the first (on the steam entry side) digester at BAP was only three months, the life of the tubes in the first digesters of the duplex batteries at UAP being approximately eigh; months. It had been observed that

wear of the tubes at BAP was most pronounced at a distance

nemocrates municipal compresses regions acom consensation and a grant section and the section of the section of

of 1.5 to 1.6 m from the top baseplate; at this point

Card 1/11 the thickness of the tube wall in contact with the

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sov/136-59-10-10/18

Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

solution decreased rapidly; the effect was less pronounced above this point and even less noticeable below it. A similar effect had been observed at UAP, except that the point of maximum wear was situated at a distance 6: 3 m from the top baseplate. It could be assumed that this variation of the degree of wear across the length of the vertical tubes was due to the changing conditions of the flow of the aluminate solution. tubes used at BAP are 7 m long; the aluminate solution, containing 290 to 300 g/l  $Na_2O_{caustic}$ , circulated through these tubes is at the boiling point (135 to 140°C) according to the pressure in the separator. Since the solution entering a tube is under a positive pressure exerted by the column of liquid present in the tube, boiling of the solution (formation of the vapour bubbles) takes place in the upper part of the tube where the temperature is higher and the pressure lower and where the bubbles are formed at the liquid-tube wall interface; it can be assumed, also, that what happens above the boiling zone is not so much formation of new bubbles near

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Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

the tube wall, as growth of those formed earlier, which are now distributed uniformly throughout the volume of the liquid (Ref 1). It follows that the intensity of the movement of the liquid layer adjacent to the tube wall should be at its maximum in the boiling zone, since it is there that the vapour bubbles are formed; consequently, wear of the tube is localized in this zone. The tubes used at UAP are also 7 m long; the temperature of the solution (containing 250 to 260 g/l Na<sub>2</sub>O<sub>caustic</sub>) entering the tube of the first digester is 105 to 115°C, ie below its boiling point; it is for this reason that boiling of the solution takes place in the middle part of the tube where, also, most intensive wear occurs. The hypothesis formulated above was checked experimentally by studying wear of tube samples subjected to the action of concentrated, industrial, alkaline aluminate solutions under conditions of: (a) absence of boiling, (b) boiling at the solutiontube wall interface and (c) boiling in the volume of the solution. The apparatus shown in Fig 1 was used for this purpose. The solution was contained in an open tank

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Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

> (detail 1) in which three tube specimens were suspended forming a vertical "chain". The middle specimen (detail 2), both ends of which were closed with flanges, could be heated by a nichrome heating element placed in its interior. In this way the middle specimen was subjected to the action of solution boiling at the tube-liquid interface; the bottom specimen was in contact with the solution at a temperature below its melting point, while the top specimen was surrounded by a solution with uniformly distributed vapour bubbles. To prevent the formation of a galvanic cell between the tank and the tube specimens (which would result in anodic passivation of the latter), the tubes were suspended on a cantilever (detail 3) insulated from the tank. To maintain the strengths of the solution constant, distilled water was added to it periodically. To match the conditions obtaining under industrial conditions, the intensity of the bubble formation was varied from experiment to experiment by varying the current thr. In the heating element of the middle specimen. The duration of each

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65693 sov/136-59-10-10/18

Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

experiment was six hours. All specimens were subjected to the same preliminary treatment: polishing, washing in alcohol, drying in a desiccator and weighing; after the test, the loose products of erosion were brushed off, the specimens were washed in water and then in alcohol and, after drying, were weighed again. The rate of wear,  $K(g/m^2/hr)$ , was calculated from the formula given on p 59 where:  $\Delta g$  - loss of weight; S - specimen surface area;  $m^2$ ; τ - duration of the test, min. The depth of penetration, II (mm/year), was calculated from the second formula on p 59 where: γ - specific gravity of the metal. The results are reproduced in Fig 2 where \(\Pi(\text{mm/year}\) is plotted against the rate of the heat flow, N(kcal/m2/hr, bottom scale), for the top (curve 3), middle (curve 1) and boutom (curve 2) specimens. It will be seen that the depth of penetration was less in the bottom specimen and that in this case, it was practically unaffected by the variation of N. Thus the results of these experiments confirmed the view that localized wear of the tubes is associated with boiling of the solution near the heating surface.

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65693 S0V/136-59-10-10/18

Causes and Means : Reducing the Wear of the Boiler Tubes in the Steam Digester Batheries During Production of Alumina

However, the question whether this wear is caused by cavitation disintegration, erosion by the solid particles suspended in the solution or corrosion remained still unanswered. The results of experiments in which solutions free from suspended solid particles had been used, proved that erosion plays no part in causing wear of the tubes. The fact that the investigated effect had been observed only in tubes carrying the strong solution (ie in those which pass through the first of the digesters constituting a baitary) indicated that cavitation phenomena cannot be regarded as the cause of wear of the tubes either. To prove this point, the previously described experiments were repeated under identical conditions, except that the actution was mechanically agitated but not bailed (ie there was no formation of the vapour bubbles); the solution was agitated by rotating the specimens at a speed varying between zero and the maximum rate of flow of the solution through the pipes under industrial conditions. The results of these experiments are reproduced in Fig 2 (curve 4) where  $\Pi_1$  (mm/year) is plotted as a function of

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65693 SOV/136-59-10-10/18

Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

the peripheral velocity, v, (m/sec, top scale) of the specimens. It will be seen that  $\Pi_1$  increased with increasing  $v_1$  at high values of  $v_1$   $\Pi_1$  attained values similar to those obtained as a result of boiling at the heating surface. This proves that localized wear of the tubes is not caused by cavitation. Consequently, it has to be concluded that the investigated phenomenon is caused by a diffusion material transfer, ie by electrochemical or chemical dissolution of iron in the alkaline aluminate solution. Since the results of experiments, reproduced in Fig 2 in the form of a  $\Pi_2$  versus v curve (curve Nr 5), in which pure NaOH solution had been used, were similar to those in which an industrial Na<sub>2</sub>O<sub>caustic</sub>-bearing solution had been employed, it was concluded that in this case NaOH is the corroding agent. It is known that corrosion of the iron-carbon alloys in alkaline solutions consists in anodic dissolution of iron; the corrosion products form a protective layer on the metal surface which, however, is soluble in hot, concentrated

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65693 SOV/136-59-10-10/18

Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

alkaline solution, the rate of corrosion being determined by the rate of dissolution to this protective layer (Ref 2 and 3), which in turn is affected by the temperature and concentration of the solution and by the degree of agitation. The effect of these factors was investigated in the next series of experiments in which the peripheral velocity of the rotating specimens was constant and maintained at v equal 0.8 m/sec; the results are reproduced in Fig 3 where  $\Pi(min/year)$  is plotted as a function of the Na20caustic content (g/1) of the solution at temperatures ranging from 70 to 140°C; it can be seen that at temperatures up to 110°C the variation of the concentration of Na20 in the solution had very small effect 1, which however, increased rapidly with the increasing Na20 caustic content in the solution at higher temperatures. The same solutions were used in the next series of experiments, each of which was carried at the temperature corresponding to the boiling point of the respective solution (at the atmospheric pressure); the peripheral velocity of the specimens was varied within wide limits;

Card 8/11

65693

Causes and Means of Reducing the Wear of the Bouler Tubes in the Steam Digester Batteries During Production of Alumina

in addition, the effect of agreation (the peripheral velocity of the specimens) was studied also in solutions containing approximately 290 g/l Na<sub>2</sub>0 caustic at temperatures between 80 and 115°C. The results of all these tests showed that the lower the concentration and temperature of the solution, the less is the effect of the intensity of agitation on the rate of corrosion. the rate of corrosion in a solution containing 200 g/l Thus, for instance, Na20 caustic: tested at temperatures up to its boiling point (at atmospheric pressure) is practically independent from the intensity of agitation; the effect of agitation, however, becomes apparent at higher temperatures and in more concentrated solutions The results of all the experiments described above provided a complete explanation of the causes and the mechanism of localized wear of the boiler tubes under consideration. problem to be solved was the selection of a tube material which would be more corrosion-resistant and which, in addition, would possess the following characteristics: resistance to inter-granular corrosion (caustic brittleness);

Card 9/11

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Causes and Means of Reducing the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

availability and low cost; thermal coefficient of expansion and electrode potential as near as possible to those of steel St 20 from which other components of the digesters are made; high thermal conductivity; workability. The code marks and the chemical composition of steels selected for the corrosion tests are tabulated on p 62. Industrial alkaline aluminate solution, containing 290 g/l Na<sub>2</sub>O<sub>caustic</sub>, was used in the experiments carried out at the boiling point (140°C) of the solution which was agitated by rotating the specimens; each test was continued until a constant rate of corrosion of the tested steel was attained; the solution was changed every 24 hr to keep low its iron content which, as had been established, affects the rate of corrosion (the inside of the tube specimens was nickel-plated for the same reason). The results of the corrosion tests are reproduced in Fig 4 where  $K(g/m^2/hr)$  of various steels (including the plain carbon steel St 10) is plotted against time, t (hr). In the last series of experiments, Card 10/11 the effect of temperature on the rate of corrosion of

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50**v**/136-59-10-10/18

Causes and Means of Reducin- the Wear of the Boiler Tubes in the Steam Digester Batteries During Production of Alumina

various steels was investigated; v equal 0.5 m/sec was employed. The results are reproduced 'n Fig 5 where  $K(g/m^2/hr)$  is plotted against in all these tests temperature (°C), the duration (hr) of each test being indicated by figures in brackets. All alloy steels were found to be more corrosion-resistant than steel St 10 and while the rate of corrosion of the latter increased with rising temperature, the rate of corrosion of the alloy steels either remained constant or decreased. It was concluded that on economical grounds, steels lOKhSND or 15KhSND are most suitable for replacing steel St 10 as a material for the construction of the boiler tubes under consideration. Acknowledgments are made to T.A. Tkachenko, G.Z. Nasyrov, A.K. Styazhkin, T.Z. Mikhaleyeva, N. V. Yeremeyeva and R. G. Rozenblyum who participated in this work. There are 5 figures, 1 table and 7 Soviet

Card 11/11

5(1)

SOV/60-32-4-16/47

AUTHORS:

Goverkov, V.M., Averbukh, Ya. D.

TITLE:

On the Methods of Calculating Mass Transfer in Apparatuses With Continuous Change of the Driving Force and in Apparatuses of the Step Type (O metodakh rascheta massoperedachi v apparatakh s metrery nym izmeneniyem dvizhushihey sily i v apparatakh stupenchatogo tipa)

PERIODICAL:

Zhurnal prikladnov khizii, 1959, Vol 32, Nr 4, pp 800-807 (USSR)

ABSTRACT:

The authors stress a principal difference in the run of absorption processes between the apparatuses of packed or spray type on one hand and the apparatuses of bubble plate or sectional type on the other. An essential characteristic of the former is the continuous and monotonous change in the driving force of absorption; i.e., the difference of concentrations of an absorbed substance in a gas and in a liquid. Due to this condition, apparatus dimensions are calculated by integrating the fundamental equation for the rate of mass transfer:

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 $-3dy + Ldx = K_FDF (y + y^*)$ 

SOV/80-32-4-16/47

On the Methods of Calculating Mass Transfer in Apparatuses With Continuous Change of the Driving Force and in Apparatises of the Step Type

trom the Bimit Winds. to Wilks. Where Gdy is the quantity of substance absorbed by the liquid from the gas in a unit of time over the surface dF; KF is shaception rate a efficient referred to a unit of surface; (y , y \*) is the driving force of the process in which y is the weiking concentration of the absorbed substance in the gas; and y\* : t(x) is the concentration of this substance over the surface of the liquid; equipondement with the oncentration of the lacter. The surface area of a packing is determined either by analytical integration of the above equation or by graphical integration when the relationship tetween y' and x 13 riv lirear. This method is not applicable to apparatuses of the step type, because concentration of a whole height of the apparatus. Therefore the authors critisize the viewprints of Plantwekiy and Kasatkin / Ref. 1 / and the recent method of the so-alled "units of transfer", and adhere to the opinion of Statnikov / Ref. 2 / who questioned

Card 2/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610001-0"

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On the Methods of Calculating Mass Transfer in Apparatuses With Continuous Change of the Driving Force and in Apparatuses of the Step Type

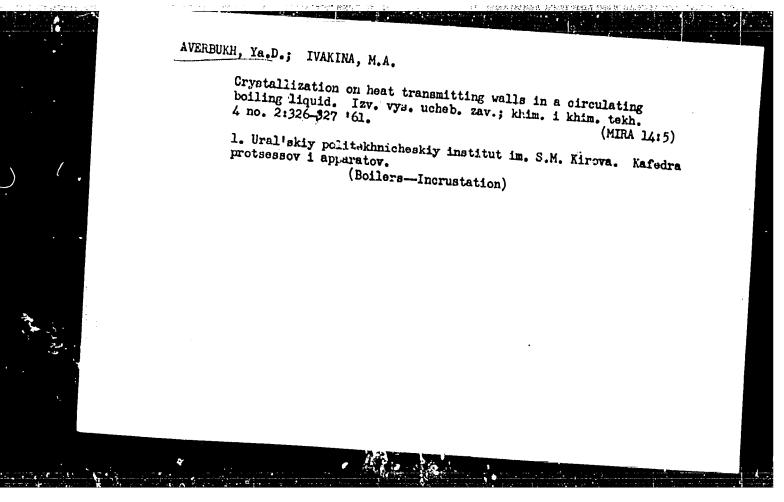
the concepts of "theoretical plate" and "efficiency factor of the plate", etc. The authors conclude that apparatuses of the step type should by designed by means of graphical methods, making use of the concept of the local efficiency factor of the contact, which was introduced by Merfri (Russian spelling) in 1925.

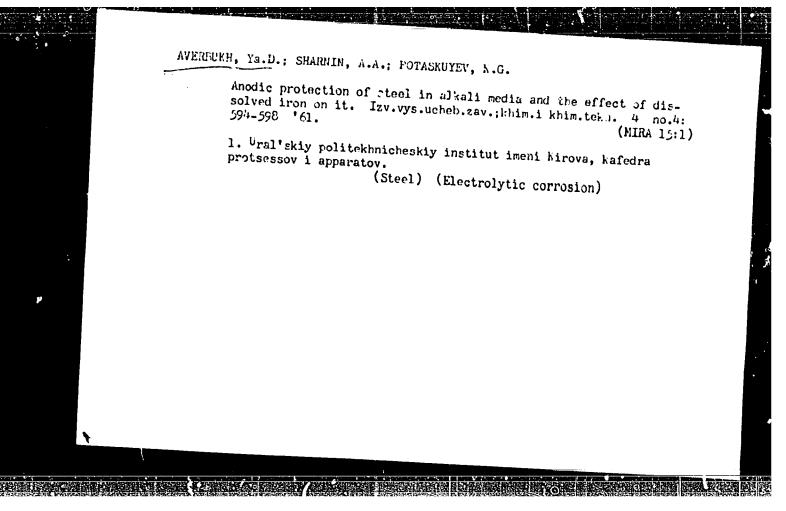
There are 1 diagram, 2 graphs and 5 references, 4 of which are Soviet and I English.

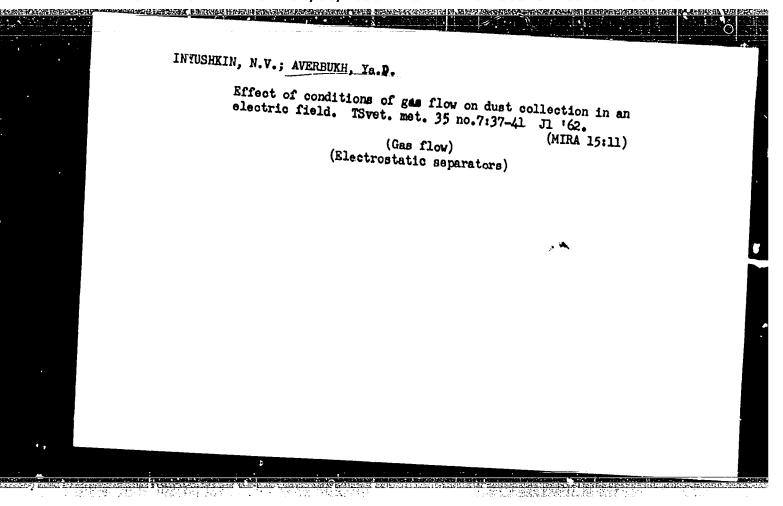
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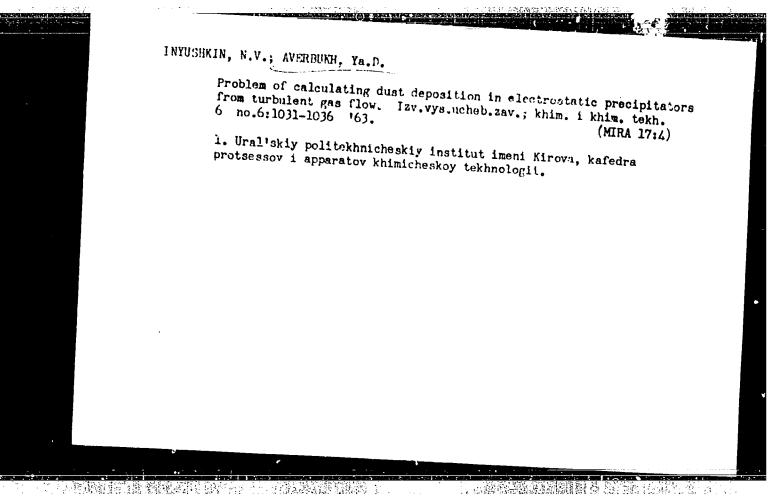
November 10, 1957.

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3/132/60/000/008/004/010 A161/A029

AUTHORS:

Sogrishin, Yu.P.; Averbukh, Ya.I.

TITLE

Mechanization of Extrusion-Turning

PERIODICAL: Kuznachno-shtampovochnoye proizvodstvo, 1960, No. 8, pp. 32 - 34

Information is given on tests of a 3P.53 (ZR-53) extrusion lathe (tokarno-davil'nyy stanck) designed for producing conical or cup-shaped parts from aluminum alloys up to 2.5 mm thick. The method is quite common in machine TEXT: building and in some instances cheaper than stamping. It is used not only in the Soviet Union. The Zr-53 machine tool was tested at Kiyevskiy mekhanicheskiy zavod (Kiyev Mechanical Works). It has a hydraulic drive for the longitudinal and transverse tool posts and for the tailstock clamp; the transverse tool post moves on a guide block in a semi-automatic operation cycle: the height of the center is 225 mm, the spindle has seven speeds (from 350 to 2,780 rpm); both longitudinal and transverse maximum feed is 3,000 mm/min. Work is shaped on hardened steel mandrels by a hardened roller applied with pressure. Conical parts were shaped in 30 - 50 sec. Extrusion without thinning out the work wall proved impossible (the pressing roller of the machine is moved toward the head-

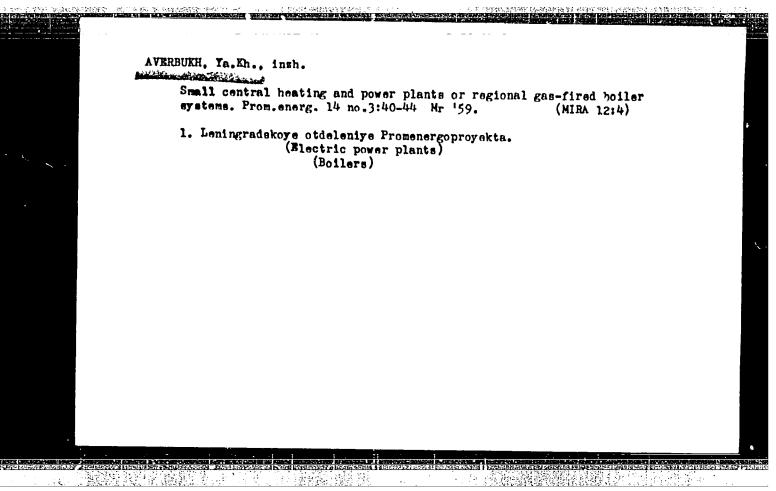
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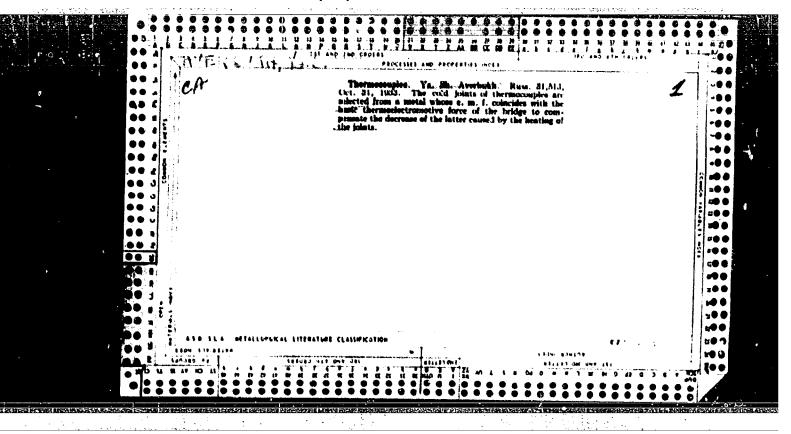
Mechanization of Extrusion-Turning

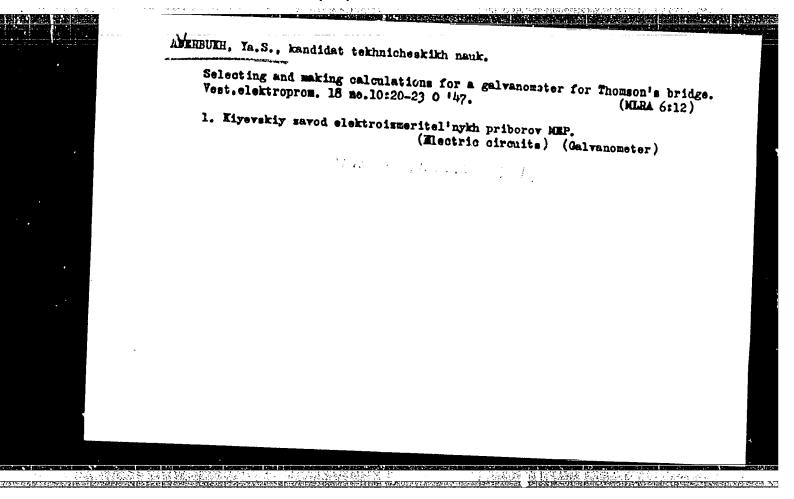
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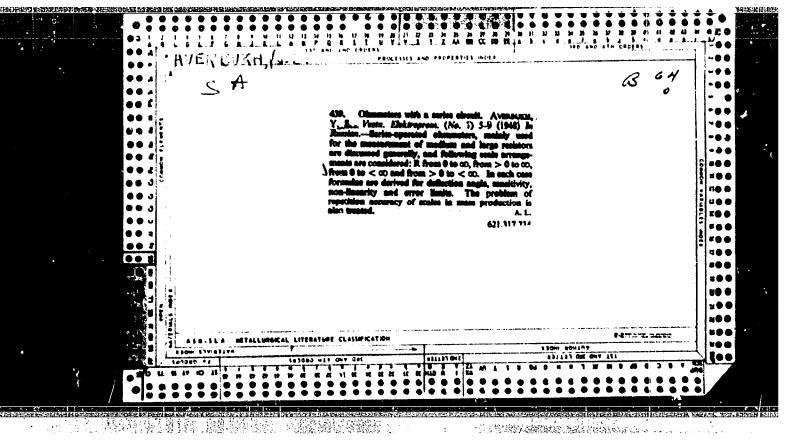
stock). Various design faults were noted. The absence of a cooling system is one of the faults; the major fault is insufficient effort of the roller, retraction of the roller (and uneven wall thickness) under higher load applied. After debugging the machine is expected to become a convenient means for producing cones and cylinders from aluminum alleys of up to 2.5 · 3.0 mm thickness. Practical experience with manual extrusion of such work must be considered in an improved design. A kinematic system is suggested for pressure roller control that would make possible extrusion with even wall thickness. The machine design is

Card 2/2



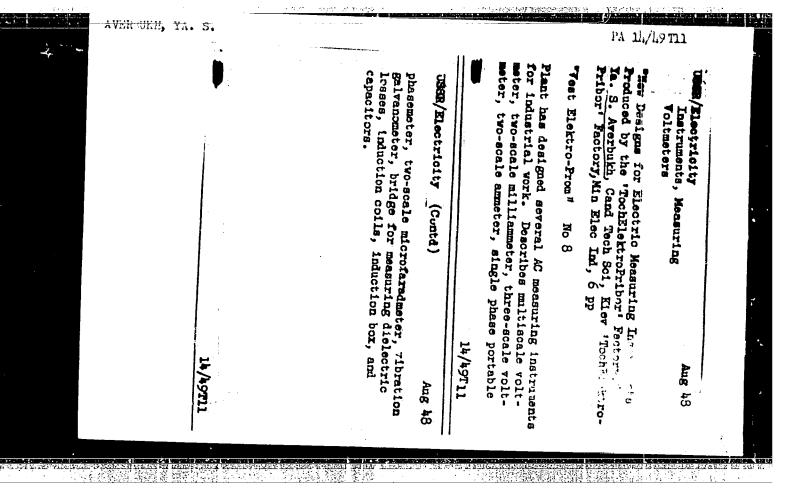






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AVERISANT, YH. 5.

"Automatic Relays Manufactured by the Kiev Plants 'Tochelektropribor' and 'Rele i Avtomatiki', " pp 174-180, ill

Abst: The article gives a short description and photographs of various types of relays (RVT 1200, Ye 52, Ye 512, Ye 513, and others).

SOURCE: Raboty MER SSSR po Makhan, i Avtometizateii Narodn, Khoz, (Work of the Ministry of the Electrical Engineering Industry USSR on Mechanization and Automation in the National Economy), Part 3, Moscow, Tabri, 1956

Sum 1854

AVERBUILH, Ya.S., kandidat tekhnicheskikh nauk.

Planning international standards for electricmeasuring instruments. Standartisateila no.4:30-33 Jl-ig '56. (MEMA 9:11)

1. Glavnyy konstruktor savoda "Tochelektropribor," Eiyev. (Blectric instruments—Standards)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102610001-0"

AUTHOR:

Averbukh, Ya.S., Candidate of Technical Sciences (Tochelektro-

recess promingenesses as a sufficient of

pribor" Works).

TITIE:

Universal high-sensitivity instruments of the "Tochelektropribor" Works. (Universal nye pribory vysokoy chuvstvitel

nosti zavoda "Tochelektropribor")

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry), 1957, Vol. 28, No. 5, pp. 17 - 19 (U.S.S.R.)

ABSTRACT:

This article describes universal instruments that have been developed especially for use in radio and electronics. The movement is of small dimensions, a magnet is mounted inside the coil frame and pivot suspension is used. The magnetic induction in the working gap was made uniform by using a magnet of special shape with pole rieces. The instrument used miniature resistors of several megohms made from very thin manganin wire with glass insulation. Two types have been made each with the same movement. Type TS-51 has 34 ranges including d.c. from 75 micro-amps to 15 amps, a.c. from 3 to 15 amps; voltage d.c. and a.c. 3-600 volts and resistance d.c. from 3 kilo-ohms to 30 megohms using a dry battery: The instrument is of class 1 on lirect current and class 1.5 for most of the a.c. ranges exc pt 3 and 600 volts which are classes 2.5. Germanium recifiers are used the circuit is given. Instrument Ts-52 js similar to Ts-51 but smaller and of lower accuracy. It is of class 1.5 on d.c. and 2.5 on a.c.

Universal high-sensitivity instruments of the "Tochelektro-pribor" Works. (Cont.)

It has 32 ranges. Other characteristics are given. Current transformers and shunts can be provided to extend the range of measurements.

6 figures, no literature references.

PHASE I BOOK EXPLOITATION

SOV/4407

Akademiya nauk Ukrainskoy SSR. Institut elektrotekhniki

Voprosy obshchego elektropriborostroyeniya (Overall Problems of the Electric Instrument Industry) Kiyev, 1960. 262 p. 3,000 copies printed.

Additional Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Ukrainskoye respublikanskoye pravleniye.

Editorial Board: A. D. Nesterenko, Corresponding Member, Academy of Sciences Ukrainskaya SSR (Resp. Ed.), M. I. Levin, Doctor of Technical Sciences, P. P. Ornatskiy, Candidate of Technical Sciences, V. F. Petrochenko, Candidate of Technical Sciences, A. F. Gorodovskiy, Engineer, S. Sh. Zaslavskiy, Engineer, and B. A. Seliber; Ed. of Publishing House: B. A. Kazantsev; Tech. Ed.: M. I. Yefimova.

PURPOSE: This book is intended for technical personnel working in the field of electric measurement techniques, in electrical instrument plants, in laboratories of electric power systems and in electric measurement laboratories of plants.

Card I

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Overall Problems of the Electric (Cont.)

807/4407

海多科特特 法政策之后一分

COVERAGE: This is a collection of reports presented at a conference on the overall development of the Soviet electrical instrument industry held in Kiyev on October 23-27, 1956. The conference was convened by the Institut elextrotekhniki AN USSR (Institute of Electrical Engineering, Academy of Sciences UkrSSR) and the Ukrainskoye respublikanskoye pravleniye NTO priborostroite1'noy promyshlennosti (Ukrainian Republic Administration of NTO of the Enstrument-making Industry) Problems relating to electrical instrument-making as a whole (reports by A. D. Nesterenko, P. P. Ornatskiy, Ya. S. Averbukh, Ye. G. Shramkov) were discussed, as well as problems relating to the development of reference instruments (Ya. S. Averbukh, I. K. Khodeyev), the automation of electric-measuring circuits (A. Ya. Shramkov, L. Ya. Mizyuk) and to the theory and practice of magnetic measurements (N. N. Shol'ts, G. L. Gornshteyn). Attending the conference were workers of scientific research institutes and schools of higher education, along with representatives of the main electric instrument plants ("Vibrator" in Leningrad, "Tochelektropribor" in Kiyev, "Omelektrotochpribor" in Omsk, ZIP in Krasnodar and others) and of various electric power systems. No personalities are mentioned. References accompany ten of the reports.

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Overall Problems of the Electric (Cont.)

307/4407

3

TABLE OF CONTENTS:

Foreword

Nesterenko, A. D. Present State of the Electric Instrument Industry, and Principal Problems Facing Industrial and Scientific Workers in Their Task of Developing and Introducing Novel Electric-Measuring Instruments Into Practice

The author enumerates the following trends in the development of the Soviet electrical instrument industry: improvement of instrument characteristics; increase of measurement limits and of the number of values measured with a single meter; new instrument specifications, especially for instruments operating in automatic control circuits; automation of measuring processes and transition to automatic instruments. He recommends various means for improving existing conditions, in particular the standardization of terminology.

Card 3/18

Overall Problems of the Electric (Cont.) SOV/4407	
Ornatskiy, P. P. New Designs of Indicating Electric-Measuring Instruments	
The author reviews new designs of portable precision, back connected, permanent-magnet moving-coil, electrodynamic, ferrodynamic, induction, electrostatic, electrothermic and universal rectifier instruments. Improvements in the construction of instrument units are discussed.	16
Averbukh, Ya. S. Project of an International Standard For Electric-Measuring Instruments This is a review of the activity of Committee no. 13 of the International Electrotechnical Commission [IEC, Soviet abbreviation MEK] for the period 1952-1956, on the matter of establishing an international standard for electric-measuring instruments.	38
Shramkov, Ye. G. On the New All-Union State Standard "Electric and Magnetic Units"  This article discusses the GOST8033-56 (All-Union State Standard 8033-56) "Electric and Magnetic Units" approved in July, 1956 by Komitet standartov, mer i izweritel nykh priborov pri Sovete Ministrov SSSR (Committee of Standards, Measures and Measuring Instruments at the Council of Ministers, USSR) to become effective January 1, 1957.	 <del>ग्र</del> ी

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	Averbukh, Ya. S. High Precision A-C Devices for a B Rated Frequencies The author suggests		175	
	The author suggests a series of electrodynamic desomewhat complex construction which would permit expanded range of frequencies at a considerable repower. There are 6 references: 5 Soviet and 1 English	the use of an eduction in glish.	117	é
	Rhodeyev, I. K. Type D57 Electrodynamic Reference 1 the Precision Class 0.1	Instruments of	• • •	
•	The author describes instruments which are to be accordance with the specifications of GOST 1845-52 State Standard 1845-52).	constructed in (All-Union	190	
	Khodeyev, I. K. Type N502 Permanent-Magnet Moving-C Instruments of the 0.1 Class The author describes M502-type instruments having lowing measurement boundaries: 0.15, 0.3, 0.75, 1 and 7.5 amperes; 45 and 75 millivolts; and 1.5 and	the fol-	201	
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AUTHOR:

Averbukh, Ya.S.

TITLE:

A series of high class accuracy a.c. instruments

for a wide range of nominal frequencies

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 8, abstract 8 A47 (V sb. Vopr. obshch. elektropriborostr., Kiyev, AN USSR, 1960, 175-189)

TEXT: Theoretical assumptions are given as applied to the design of the series of moving coil 0.5 class of instruments by factory "Tochelektropribor". The instruments, voltmeters type A525 (D525), ammeters type A526 (D526) and wattmeters A527 (D527) have a nominal frequency range up to 1500 c/s. The frequency errors are analyzed as due to the inductance and mutual inductance of windings, eddy currents, and distributed winding capacities. Ideas, as to the possible methods of either eliminating or decreasing the above errors, are given. Formulae are given for evaluating

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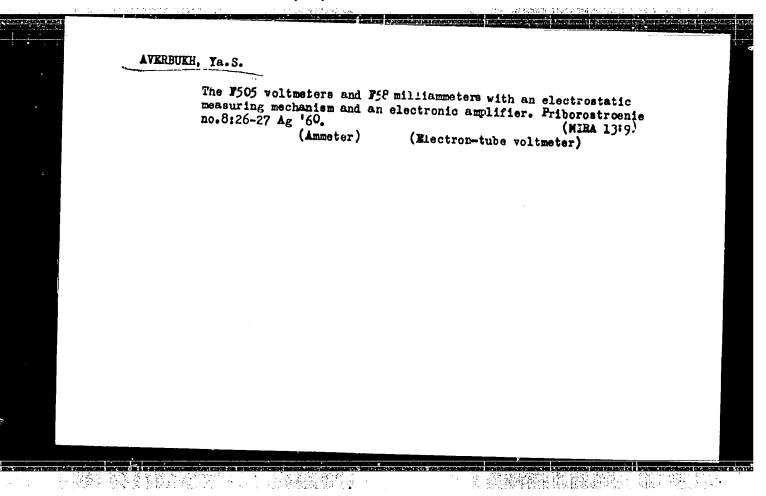
A series of high class accuracy...

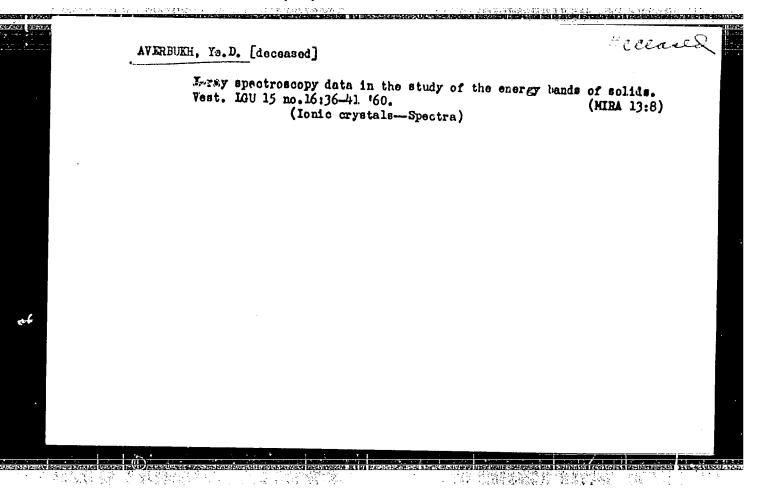
S/194/61/000/008/004/092 D201/D304

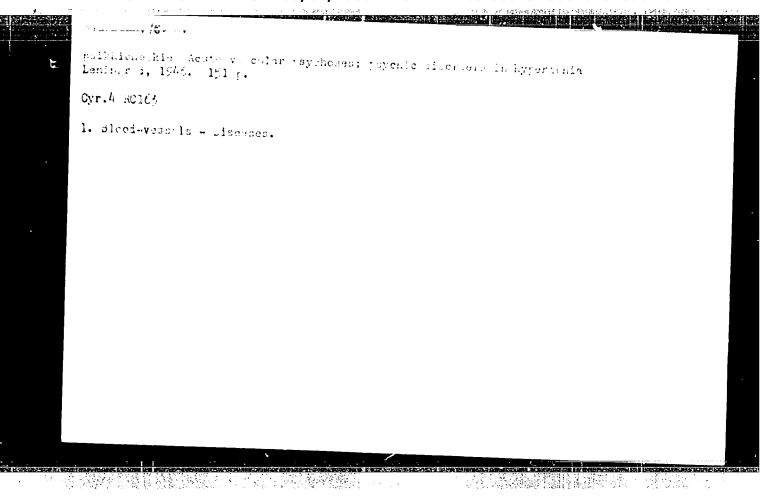
el. parameters of the instruments which affect the frequency errors and several conclusions are made on the choice of their optimum values. Measurement ranges of the series are given together with some construction details and properties. The length of the scale of instruments is 150 mm, overall dimensions 215 x 280 x 160 mm. Ammeters and milliammeters are manufactured with upper limits from 25 mA to 10 A, voltmeters - 50 to 450 V. Both categories are singlerange instruments for better frequency error compensation. Because of specific difficulties in frequency error compensation in voltmeters due to the combined inductance of the frame and the fixed coil, the FSD currents have been made larger than those in 50 c/s instruments. Because of this, the power consumption is up to 12 W. In ammeters it varies between 0.3 and 19 W, depending on the upper range limit. The wattmeters have two nominal voltages (150 and 300 V) and two nominal currents from the range 0.15/0.3, 0.5/1, 2.5/5 and 5/10 A, with current in the parallel branch of 30 mA. The series circuit consumes nominally from 0.1 to 0.36 W. The above instruments exhibit many better technical properties than the

Card 2/3

A series of high class accuracy.. S/194/61/000/003/004/092
previous range of the same class of accuracy, providing at the same time facilities of measurements within a much wider frequency range. 6 references. Abstracter's note: Complete translation.







AVERBURH, Ye. S.

Averbukh, Ye. S. "Repeated action as indicators of the work of psychiatric fixations," Ogr.- metod. voprosy sov. neyropsikiatrii (VII), 1948, pp. 103-112

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

AVERBUKH, Ye.S.

Combination of psychic and endocrine disorders in some cerebral disorders. Zhur.nevr. i psikh. Supplement:62-63 '57. (MIRA 11:1)

1. Nuachno-issledovatel'skiy psikhonevrologicheskiy institut (dir. prof. V.N.Myasishchev), Leningred.
(BRAIN--DISEASES) (PSYCHOSES)
(ENDOCRIME GIAMDS--DISEASES)

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AVERBUKH, Yo.S.

The biodynamic theory of behavior advanced by the American psychoneurologist Masserman. Vop.psikh. i nevr. no.1:173-181 157 (MIRA 11:8)

1. In Faikhonevrologicheskogo instituta im. V.M. Bekhtereva. (MASSERMAN, JULES HUMEN, 1905-)

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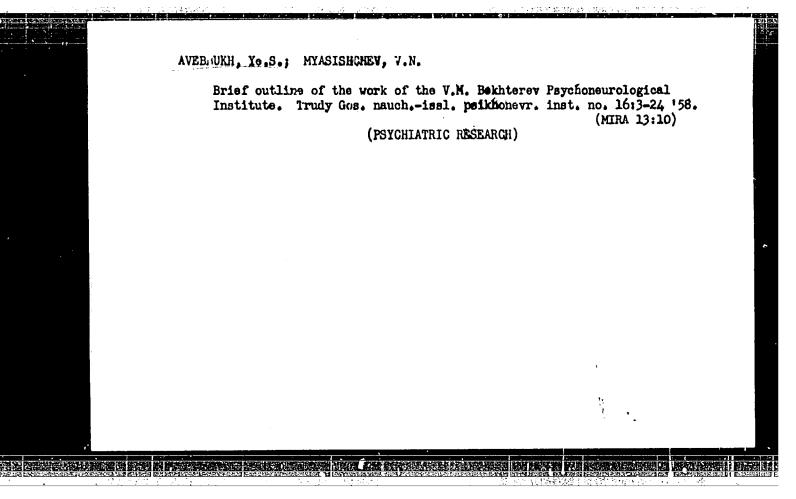
AVERBUKH, Ye.S.; YMPINENKO, V.L.; LAPIROVA, M.H (Leningred)

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1. Iz 3-go psikhletricheskogo otdeleniya (nauchnyy rukovoditel' - prof. Ye.S.Averbukh) Psikho-nevrologicheskogo hauchno-issledovatel'-skogo institute imen! V.H.Bukhtereya (dir. - prof. V.N.Myasishchev) (NEFVOUS SYSTEM-DISKASES)

(PANGRYAS—TUMORS)

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[Nervous and mental disturbances in hypertension] Hervnye i psikhicheskie narusheniia pri gipertonicheskoi bolezni. Leningrad, Medgiz, 1959. 351 p. (MIRA 13:4) (HYPERTENSION) (NERVOUS SYSTEM--DISEASES)

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AVERBUKH, Ye.S.; BLAZHKOV, G.I.; MOZHAYSKIY, V.M.; TIMOFEYEV, N.N.

Polyetiological genesis of diseases in wartime and the problem of asthenias. Trudy Gos. nauch.-issl. paikhonevr. inst. no.20:77-85 '59. (MIRA 14:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy psikhonevrologicheskiy institut imeni V.M. Bekhtereva, Leningrad.

(ASTHENIA) (NERVOUS SYSTEM—DISEASES)

(WORLD WAR, 1939-1945—MEDICAL AND SANITARY AFFAIRS)

AVERBUKH, Ye.S.; VISHNEVSKAYA, L.N.; GAPONOVA, V.D.; DOIL'NITSYNA, A.D.;

KEFAMENKO, V.L.; LEBEDEV, B.A.

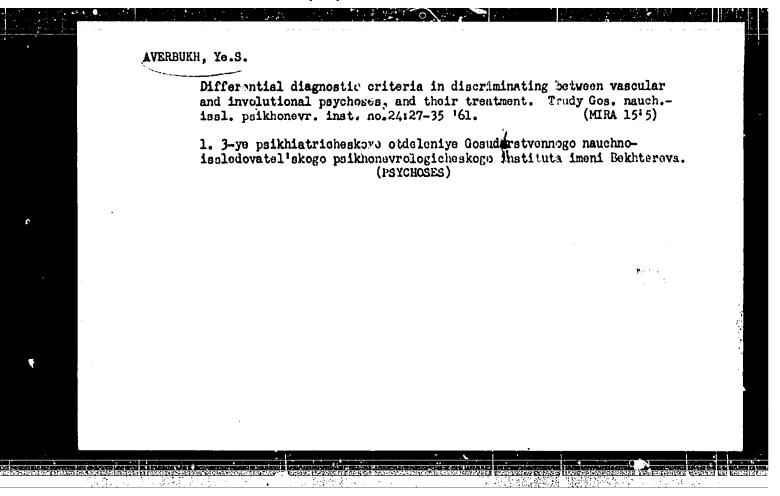
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(MENTAL ILLNESS)

(HYPERTENSION)

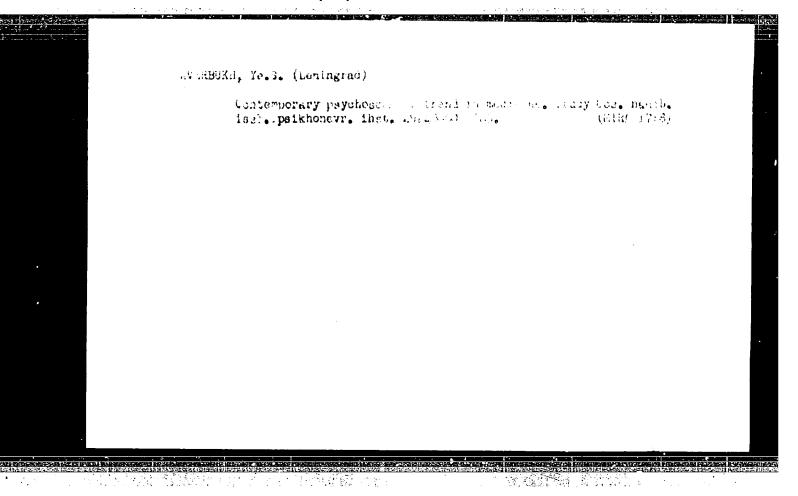


# AVERBUKH, Ye. S.

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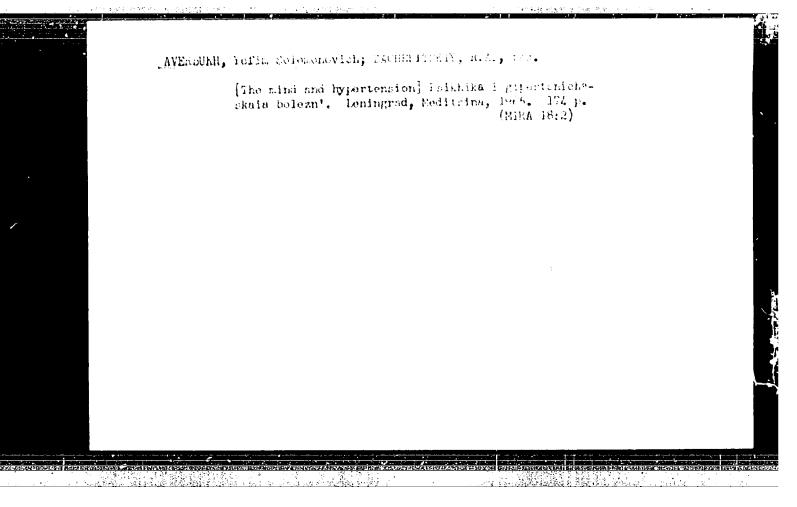
1. Leningradskiy psikhonevrologicheskiy institut imeni Bekhtereva.

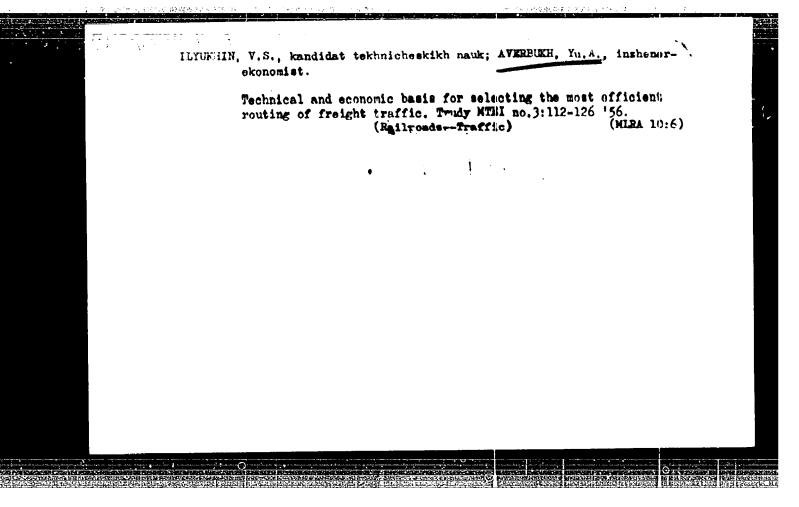
(CEREBRCVASCULAR DISEASE) (MEMMAL ILLNESS)

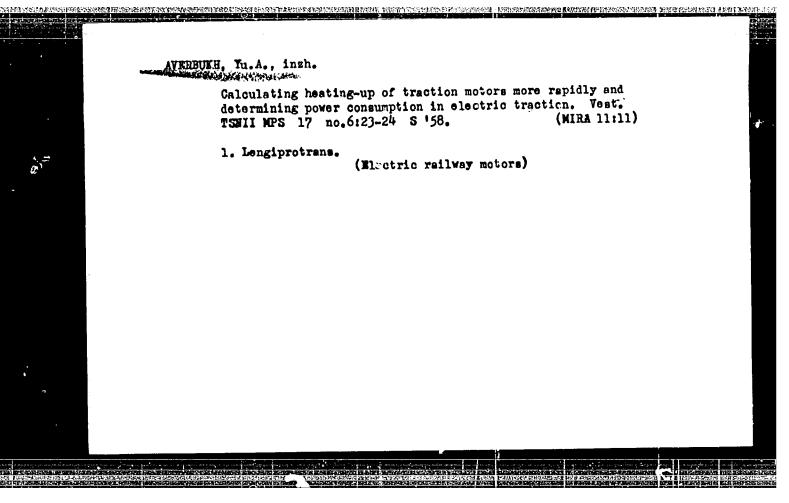


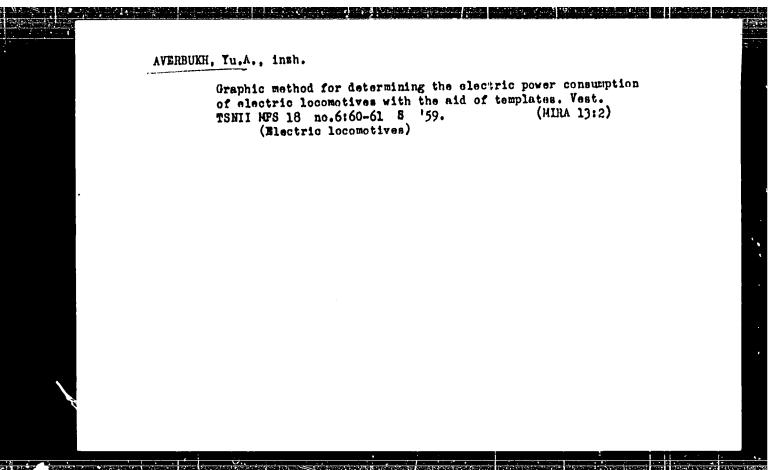
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[Problems of psychiatry; anniversary collection of articles dedicated to the 60th birthday of Professor Izmail Fedorovich Sluchevskii] Problemy psikhiatrii; iubileinyi sbornik, posviashchennyi 60-lotilu so dnia rozhdenia professora Izmaila Fedorovicha Sluchevskogo. Leningrad, Meditsina, 1964. 434 p. (MIRA 17:12)









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